

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
11 January 2001 (11.01.2001)

PCT

(10) International Publication Number
WO 01/03113 A1

(51) International Patent Classification: **G10L 15/20**,
21/02

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(21) International Application Number: PCT/EP00/05963

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(22) International Filing Date: 27 June 2000 (27.06.2000)

(81) Designated States (national): JP, US.

(25) Filing Language: English

(84) Designated States (regional): European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).

(26) Publication Language: English

(30) Priority Data:
99202136.0 1 July 1999 (01.07.1999) EP

Published:

— With international search report.

— Before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments.

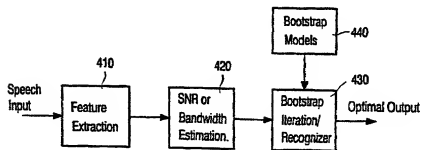
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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **ROBUST SPEECH PROCESSING FROM NOISY SPEECH MODELS**



(57) Abstract: A speech processing system, such as a speech recognition or speech coding system, is capable of processing a degraded speech input signal. The system includes an input for receiving the degraded speech input signal. Means (420) are used for estimating a condition, such as the signal-to-noise ratio or bandwidth, of the received input signal. Means (430) are used means for selecting a processing model which corresponds to the estimated signal condition. The model may be retrieved from a storage (440) with models for different signal conditions. Means (430) are also operable to estimate an originally uttered speech signal based on the received input signal and to process the estimated original signal according to the selected model.

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ABSTRACT:

A speech processing system, such as a speech recognition or speech coding system, is capable for processing a degraded speech input signal. The system includes an input for receiving the degraded speech input signal. Means 420 are used for estimating a condition, such as the signal-to-noise ratio or bandwidth, of the received input signal. Means 430 are used means for selecting a processing model which corresponds to the estimated signal condition. The model may be retrieved from a storage 440 with models for different signal conditions. Means 430 are also operable to estimate an originally uttered speech signal based on the received input signal and to process the estimated original signal according to the selected model.

Fig. 4